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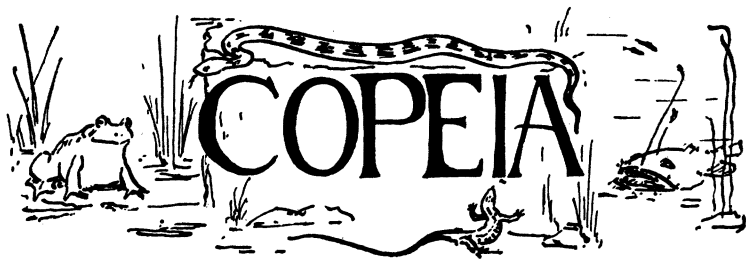
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Published to advance the Science of cold-blooded vertebrates

THE NOMENCLATURE OF AMERICAN FISHES AS
AFFECTED BY THE OPINIONS OF THE
INTERNATIONAL COMMISSION
ON ZOOLOGICAL NOMEN-
CLATURE.

In the third International College of Zoology meeting at Leyden, Holland, in 1895, an International Commission on Zoological Nomenclature was appointed. At Cambridge in 1898, this Commission was made permanent, and the number increased from five to fifteen. At Berne in 1904, these were divided into three classes, each to serve for nine years. At Boston in 1907, provision was made for giving opinions on problems in zoological nomenclature by vote of the members of the Commission.

These opinions have been printed from time to time by the Smithsonian Institution. (Publications 1938, 1989, 2060, 2169, 2256, 2359.)

In the present paper I have tried to note the changes in nomenclature of American fishes since the publication of Jordan and Evermann's *Fishes of North and Middle America* (1898), (Bulletin 47 U. S. National Museum), as affected by these opinions.

Etheostoma Rafinesque

Type *Etheostoma blennioides* Rafinesque. The generic name *Etheostoma* should replace *Diplesion*, for *Etheostoma blennioides* (Rafinesque), while *Catonotus* Agassiz should replace *Etheostoma* as the generic or subgeneric name of the group typified by *Etheostoma flabellare* Rafinesque. If the genus is to be recognized in the broad sense adopted by Jordan and Evermann under the head of *Etheostoma*, the name *Pæcilichthys* must be taken instead of *Etheostoma*, *Etheostoma variatum* Kirt-

land being its type. It is probable, however, that several of the subgenera recognized by Jordan and Evermann should stand as valid genera. Among these are *Nanostoma*, Putnam; *Nothonotus*, Cope; *Torrentaria*, Jordan and Evermann; *Oligocephalus*, Girard; *Nivicola*, Jordan and Evermann; *Rafinesquiellus*, Jordan and Evermann; *Claricola*, Jordan and Evermann; and *Catonotus*, Agassiz.

Amia Gronow

In Opinion 20, it is decided that the generic names of Gronow (1763), with polynomial names for species, shall be accepted, their date being subsequent to that of the Tenth Edition of the *Systæma Naturæ* (Jan. 1, 1758). The case of Brisson (1760) in Birds (Opinion 37), is exactly parallel except that the names of Brisson have come into more general use than those of Gronow. *Amia* Gronow (1763) must displace *Amia* Linnæus (1766). *Amia* L. thus becomes *Amiatus* Rafinesque (1815), and the species becomes *Amiatus calvus*. *Amia* Gronow replaces *Apogon* Lacépède (1802), and the type species becomes *Amia imberbis*. *Cyclogaster* Gronow must replace *Liparis* (Artedi) Scopoli, 1777. The type species of both is *Cyclopterus liparis* L. *Collyodon* Gronow must replace *Scarus* Forskål (1775), *Scarus* Gronow (1763), being a *Labrus*. The type of *Collyodon* is *Scarus croicensis*, Bloch. *Enchelyopus* Gronow (1763) must replace *Zoarces*, Cuvier 1829, the type of each being *Blenius viviparus* L. *Hepatus* Gronow (1763) must replace *Teuthis* L. (1766) and *Acanthurus* Forskål, 1775, the type of each being *Teuthis hepatus* L. The accepted genera *Holocentrus*, *Pholis*, *Eleotris*, *Albula*, *Synodus*, *Umbra*, *Leptocephalus* and *Pteraclis* must date from Gronow (1763), not from later usage.

Ceraticthys Baird and Girard (Opinion 22)

The name *Ceraticthys* Baird and Girard, monotypic, being based on *Ceraticthys vigilax* Baird and Girard, must replace *Cliola* Girard (1856) based on the same species. *Ceraticthys* of Girard (1856) is synonymous with the earlier *Nocomis* of Girard. This decision conserves also the genus *Cymatogaster*, Gibbons (*C. aggregatus*).

In Opinions 23 and 24 the generic names *Cheilodipterus* Lacépède (vice *Aspro* Commerson) and *Antennarius* (Commerson) Lacépède vs. *Histrio* Fischer (1813) are conserved.

Opinion 25 conserving *Damesella* Walcott (1905) notwithstanding the existence of *Damesiella* Tornquist 1899, applies equally to the genus *Dekaya* Cooper (1862) as against the prior *Dekayia* of Milne-Edwards and Haime (1851), a genus of corals. *Dekaya princeps* should therefore replace *Caulolatilus princeps*, as the name of the California "Blanquillo."

Opinion 26 confirms the view of Jordan and Evermann that *Cypsilurus* of Swainson is merely a misprint for *Cypselurus* which name should stand. It should be noted that *Exocætus volitans* L. the type of *Exocætus* is a species of the genus called *Halocypselus*. *Exocætus* should therefore replace *Halocypselus* while the genus called *Exocætus* by Jordan and Evermann becomes *Cypselurus*.

Opinion 29 regards *Pachynathus* Swainson (1839) as a misprint for *Pachygnathus*. It is in this form pre-occupied by *Pachygnathus* 1834, a genus of spiders. The genus typified by *Balistes capistratus* Shaw, being thus left without a name may be called *Sufflamen* Jordan (new generic name). *Sufflamen* (impediment) is a word used by Professor Mitchill for the "trigger" of these "Trigger Fishes." The American species, common on the west coast of Mexico, is different from the true *Sufflamen capistratus* of the East Indies and may stand as *Sufflamen verres* (Gilbert and Starks).

In opinion 33 the generic name *Rutilus* Rafinesque is conserved for the type of *Cyprinus rutilus* L. Apparently, however, no American species are congeneric with this type nor with *Leucos* of Heckel. The species referred to *Rutilus* by Jordan and Evermann are placed in other genera as *Siphateles* Cope and *Hesperoleucus* Snyder by Professor Snyder. *Myloleucus* Cope is a synonym of *Richardsonius* Girard.

Opinion 58 reverts to common usage from that of Jordan and Evermann. *Esox lucius* L. should stand as type of *Esox*, rejecting *Lucius* Rafinesque, and *Esox belone* L. is type of *Belone* Cuvier.

In like fashion opinion 45 decides that *Syngnathus acus* L. is the type of *Syngnathus* L. of which *Siphostoma* Rafinesque 1810 becomes a synonym.

In opinion 60, *Salmo irideus*, Gibbons (1885), the name of the Rainbow Trout is maintained as against the original misprinted or incorrect spelling *Salmo iridia*. Whether *Salmo gairdneri* Richardson (1836) is based on the same fish or on an imperfect example of

the red salmon (*Oncorhynchus nerka* Walbaum) is still uncertain.

In opinion 52, the names (*Semotilus*) *corporalis* (Mitchill) and (*Notropis*) *cornutus* (Mitchill) as used by Jordan and Evermann are conserved as against the specific names, *bullaris* and *megalops* given to the respective species by Rafinesque. Mitchill's first account (August, 1817) of each species is a brief notice, followed later (March, 1818), by an adequate description. Between these two dates (Dec., 1817) Rafinesque published descriptions. A brief notice if identifiable constitutes a description.

Opinion 54 confirms the genus *Phoxinus* and *Alburnus* as of Rafinesque (1820) not of Agassiz (1835).

Another opinion confirms the decision made by Jordan and Gilbert that the proper type of the genus *Pleuronectes* L. should be *Pleuronectes platessa* L, the type of *Plestessa* Cuvier, and that the proper type of *Sparus* L. should be *Sparus aurata* L. later type of *Aurata* Fleming and of *Chrysophrys* Cuv. and Val.

Under the accepted rules the generic name *Bodianus* Bloch 1790 (type *Bodianus bodianus* Bloch=*Labrus rufus* L.) must replace *Harpe* Lacépède (1902) with equivalent type. *B. bodianus* being of necessity the type of *Bodianus*, through tautonomy.

Opinion 40 with special note by Dr. Stejneger confirms *Salmo eriox* L. as the proper name of the Trout of western Europe, in place of *Salmo fario* and *Salmo trutta*.

Opinion 41, confirms the use of the generic name *Ablennes* instead of *Athlennes* (originally a slip of the pen), for the Gar-fish, *Ablennes hians*.

Opinion 44 confirms the use of *Leptocephalus*, a name applied to a larva, in place of the later *Conger*, applied to the adult.

Opinion 47 confirms *Carcharias taurus* Rafinesque as type of *Carcharias* Rafinesque, thus replacing *Odontaspis* Agassiz. On the same reasoning the type of *Galeus* Rafinesque becomes *Galeus mustelus* as *Galeus* replaces *Pleuracromylon*. This view diverges from common usage, although it accords with the view (unwillingly) taken by Jordan and Evermann. On a similar line of argument we must accept (also unwillingly) *Carapus* Rafinesque in place of *Fierasfer* Cuvier.

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